

Product: ROSE DEFENSE® RTU
EPA Reg. No.: 70051-13-869
Effective Date: 02/17/1997

MATERIAL SAFETY DATA SHEET
Emergency Phone 800/535-5053

Size	Product Number	UPC Code
Quart	07632	0 49424 07632 1

Note: Be sure to compare the EPA registration number as given on the MSDS with the EPA registration number as given on the label as some products have had the active ingredients changed without a corresponding change in the UPC number or in the item description.

1. INGREDIENTS:

Clarified Hydrophobic Extract of Neem Oil CAS Number 8002-65-1

2. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM:	Liquid
COLOR:	Brown
ODOR:	Garlic
BOILING POINT:	> 392°F 200°C
MELT POINT/FREEZE POINT:	55°F 12.78°C
FLASH POINT:	> 239°F 115°C
AUTO IGNITION:	N/A
UPPER EXPLOSIVE LIMITS (UEL):	N/A
LOWER EXPLOSIVE LIMITS (LEL):	N/A
pH:	6.5 - 7.5
SOLUBILITY IN WATER:	Slightly Soluble
SPECIFIC GRAVITY:	0.9137
BULK DENSITY:	N/A
% VOLATILE BY WEIGHT:	N/A
VAPOR PRESSURE at 20°C:	< 1.33 EE-5 Pa
VAPOR DENSITY:	Greater than air

3. HAZARDOUS DATA:

This product is intended for use as a pesticide to control fungi, insects, and mites on ornamental plants. This product should pose no health concerns through normal use.

Potential Health Effects

ROUTE(S) OF ENTRY: Eyes, skin, oral.

HUMAN EFFECTS AND SYMPTOMS

OF OVEREXPOSURE: None noted.

ACUTE EYE CONTACT: May cause mild, reversible eye irritation.

CHRONIC EYE CONTACT: Chronic exposure not likely from normal use.

ACUTE SKIN CONTACT: May cause mild, reversible skin irritation. LD50 >2 g/kg.

CHRONIC SKIN CONTACT: Repeated exposure may cause mild sensitization.

ACUTE INGESTION: LD50 >5 g/kg.

CHRONIC INGESTION: Chronic exposure not likely from normal use.

ACUTE INHALATION: LD50 >6.2 mg/L

CHRONIC INHALATION: Chronic exposure not likely from normal use. Product is nonvolatile.

CARCINOGENICITY: NTP: N/A IARC: N/A OSHA: N/A

MEDICAL CONDITIONS AGGRAVATED

BY EXPOSURE: None noted.

4. FIRST AID MEASURES:

FIRST AID FOR EYES: Flush eyes with plenty of water. Get medical attention if irritation persists.

FIRST AID FOR SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.



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FIRST AID FOR INHALATION:
FIRST AID FOR INGESTION:

Remove to fresh air. Seek medical attention if irritation persists.
Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA:

Alcohol or polymer foam, carbon dioxide, dry chemical, or water.

UNUSUAL FIRE AND

EXPLOSION HAZARDS:

None.

SPECIAL FIRE FIGHTING

PROCEDURES:

None.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES:

Absorb the liquid and scrub the area with detergent and water. Avoid runoff into storm sewers and ditches which lead to waterways.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE

(MIN./MAX.):

55°F / 95°F 12.78F / 35°C

SHELF LIFE:

Stable under normal storage conditions for upwards of two years.

SPECIAL SENSITIVITY:

Keep from freezing.

HANDLING AND STORAGE

PRECAUTIONS:

None.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EYE PROTECTION REQUIREMENTS: Use of safety glasses goggles is recommended when handling.

SKIN PROTECTION REQUIREMENTS: Use of protective gloves is recommended when handling.

RESPIRATORY/VENTILATION:

No special ventilation requirements.

REQUIREMENTS:

EXPOSURE LIMITS:

None.

9. STABILITY AND REACTIVITY:

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

None noted.

DECOMPOSITION PRODUCTS:

N/A

CONDITIONS TO AVOID:

None.

10. TOXICOLOGICAL INFORMATION:

Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. In case of contact flush eyes or skin with plenty of water. Get medical attention if irritation persists.

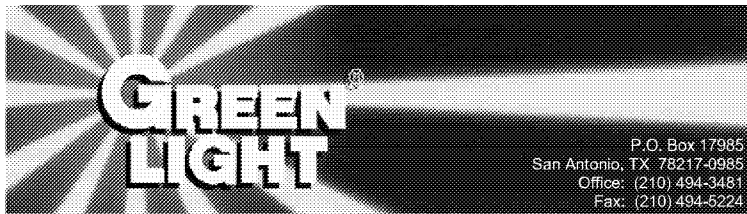
11. ECOLOGICAL INFORMATION:

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

12. DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD:

Wastes resulting from the use of this product may be disposed of onsite or at an approved waste disposal facility.



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13. TRANSPORTATION INFORMATION:

D.O.T. PROPER SHIPPING NAME:	N/A
TECHNICAL SHIPPING NAME:	Clarified hydrophobic extract of Neem Oil
D.O.T. HAZARD CLASS:	N/A
U.N./N.A. NUMBER:	N/A
PRODUCT RQ (lbs.):	N/A
D.O.T. LABEL:	N/A
D.O.T. PLACARD:	N/A
FREIGHT CLASS BULK:	N/A
FREIGHT CLASS PACKAGE:	N/A
PRODUCT LABEL:	N/A

14. REGULATORY INFORMATION:

OSHA STATUS:	N/A
TSCA STATUS:	N/A
CERCLA REPORTABLE QUANTITY:	N/A
SARA TITLE III:	
Section 302 Extremely Hazardous Substances:	N/A
Section 311/312 Hazard Categories:	N/A
Section 313 Toxic Chemicals:	N/A
RCRA STATUS:	N/A

STATE REGULATORY INFORMATION:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For detail on your regulatory requirements you should contact the appropriate agency in your state.

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